



# The Switch Book: The Complete Guide to LAN Switching Technology

*Rich Seifert*

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# The Switch Book: The Complete Guide to LAN Switching Technology

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## **The Switch Book: The Complete Guide to LAN Switching Technology** Rich Seifert

The most in-depth guide to the capabilities, application, and design of LAN switches and switched internetworks. Written by an innovator who has been at the forefront of networking technology for more than two decades, this comprehensive book covers everything you need to know about LAN switching. From understanding switch functions and features to technology integration and network management, it provides valuable insights for network planners, developers, and managers. Seifert helps you gain a clear understanding of the often-complex features and options available in LAN switches, along with detailed explanations of the latest technology enhancements—including previously unpublished information on Link Aggregation, Virtual LANs, and Layer 3 switches. Packed with the most up-to-date and complete information on LAN switches, this book:

- \* Explains how switches and bridges operate, and explores implementation and performance issues
- \* Details how switches can be deployed in both homogeneous and heterogeneous LAN environments
- \* Provides a comprehensive explanation of the Spanning Tree Protocol
- \* Covers source routing, which is available on Token Ring and FDDI networks
- \* Explains full duplex LAN operation and link flow control methods
- \* Looks at the applications and IEEE 802.3ad standard for aggregated links and their effect on system and higher-layer protocol behavior
- \* Introduces Virtual LANs and the IEEE 802.1Q standard
- \* Discusses the Simple Network Management Protocol (SNMP) as well as other forms of network management
- \* Explores the architecture and data flow through a typical switch, including an analysis of switch fabric options

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